

Anti-NADase (hemolytic streptococcus) antibody, rabbit serum

64-005, 50 µl; 64-006, 250 µl

NAD (nicotinamide adenine dinucleotide) hydrolyzing enzyme is one of the extracellular enzymes and toxins produced by hemolytic *streptococci*. Although the function as a toxin is largely unknown, it has been suggested to be related to pathogenicity of acute infection (1). NADase is produced not only by Group A hemolytic *streptococci* but also by Group C and Group G strains. The amino acid sequences are highly conserved among them and the antibodies cross-react each other. Upon infection of hemolytic streptococci, the antibody titer to the NADase is increased similarly to anti-SLO (Streptolysin O) antibody. The product was prepared by immunizing rabbit with purified recombinant NADase of Group C hemolytic *streptococci* expressed in *E. coli* (2).

Application

- 1) Western blot (x2,000~10,000 dilution)
- 2) Immunoprecipitation
- 3) Neutralization of NADase activity

Specifications

Immunogen: Purified recombinant NADase of Group C hemolytic streptococci expressed in *E. coli*

Form: Undiluted antiserum with 0.09 % sodium azide

Reactivity: NADase of Group A, C, and G origins

Storage: Ship 4°C, store -20°

Data Link UniProtKB/TrEMBL [Q5R2E3](#) (Q5R2E3_STREQ)

Reference

1. Minami M et al. "Clindamycin-Induced CovS-Mediated Regulation of the Production of Virulent Exoproteins Streptolysin O, NAD Glycohydrolase, and Streptokinase in *Streptococcus pyogenes*" *Antimicrob. Agents Chemother.* **49**:88–96(2010)..PMID: [19805566](#)

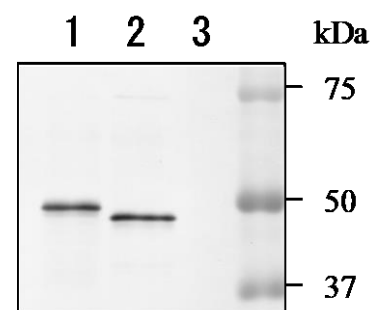
2. H. Kimoto *et al.*: Genetic and biochemical properties of streptococcal NAD-glycohydrolase inhibitor. *J. Biol. Chem.*, **277**, 14695-14702 (2006). PMID: [16380378](#)

Fig. Detection of NADase in the culture supernatant of hemolytic streptococci with anti-NADase.

Lane 1: Culture supernatant of group A streptococcus

Lane 2: Culture supernatant of group C streptococcus

Lane 3: Culture medium only (negative control)



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